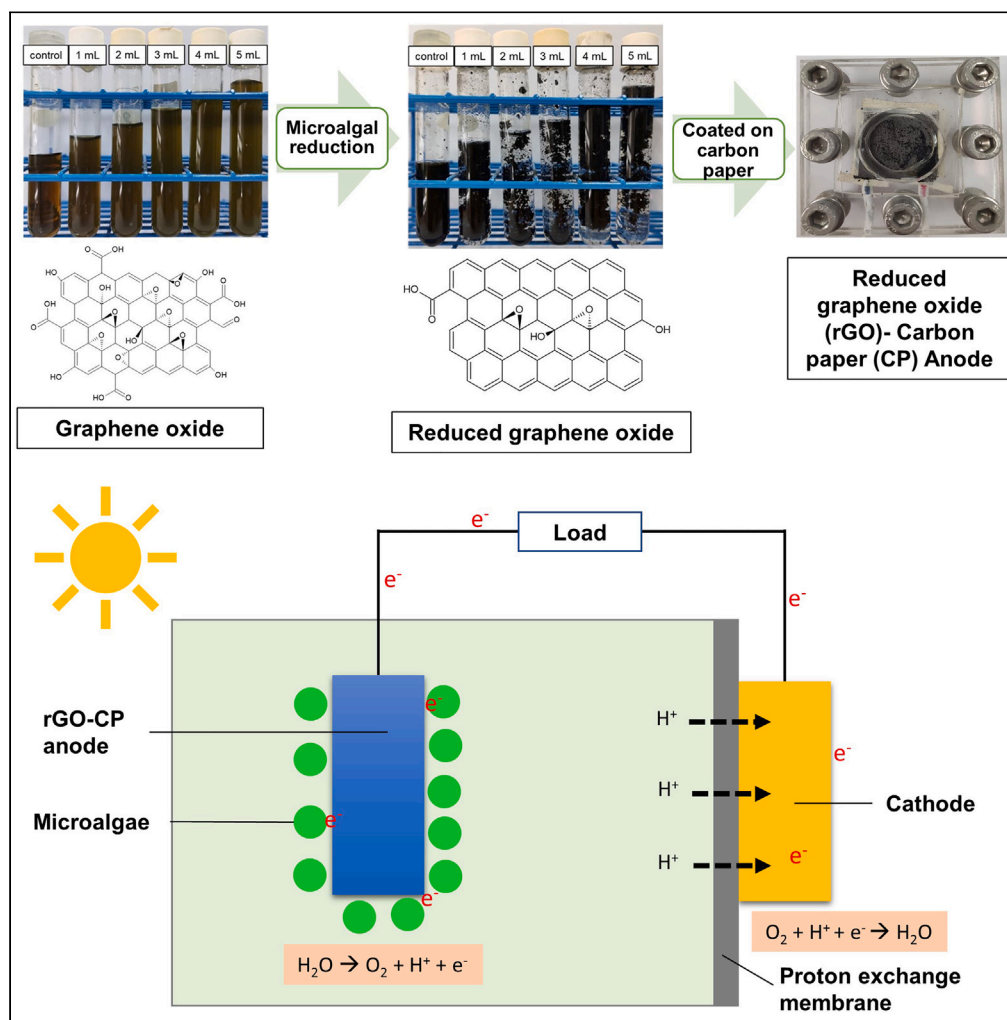


Article

Green synthesis of reduced graphene oxide by using tropical microalgae and its application in biophotovoltaic devices



Jing-Ye Tee, Fong-Lee Ng, Fiona Seh-Lin Keng, ..., Shiwei Lin, G. Gnana kumar, Siew-Moi Phang

fonglee_ng@yahoo.com (F.-L.N.)
kumarg2006@gmail.com (G.G.k.)
phang@um.edu.my (S.-M.P.)

Highlights
The successful reduction of GO using *Chlorella* sp. UMACC 313 was achieved

The rGO was subsequently coated on the carbon paper and used as the anode of BPV

781% increase in maximum power density was achieved in rGO-CP compared to bare CP

rGO-CP BPV with *Synechococcus* sp. UMACC 371 achieved a power density of 0.555 mW m⁻²

Tee et al., iScience 27, 109564 April 19, 2024 © 2024 The Authors. Published by Elsevier Inc.
<https://doi.org/10.1016/j.isci.2024.109564>

